ENCRYPTION KEY MANAGEMENT METHOD OF SHARED ENCRYPTION INFORMATION

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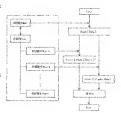**Inventor(s):** MIYAKE MASARU; NAKAO KOJI +

Applicant(s): KDDI CORP +

Classification:

- international: *G06F15/00; G06F21/20; H04L9/08;* **G06F15/00; G06F21/20; H04L9/08;** (IPC1-7): G06F15/00; H04L9/08

- European:

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Abstract of **JP 2004048479 (A)**

PROBLEM TO BE SOLVED: To provide an encryption key management method of shared encryption information capable of exchanging an encryption key easily and safely with high confidentiality of the shared encryption information. ; SOLUTION: A secret key Kpri of a public key encryption is divided into two or more secret key pieces Kpri-1, Kpri-2,..., Kpri-n by using an algorithm of a threshold encryption system, imperfectly decrypted information Kpri-1[Kpub [Data]], Kpri-2 [Kpub [Data]] is generated by decrypting information Kpub[Data] encrypted by a public key Kpub at different position, respectively, by using the number defined as a threshold of secret key pieces Kpri-1, Kpri-2, and information Data is reproduced by collecting the decrypted information Kpri-1[Kpub [Data]], Kpri-2 [Kpub [Data]] to a position to which an access is allowed. ; COPYRIGHT: (C)2004,JPO